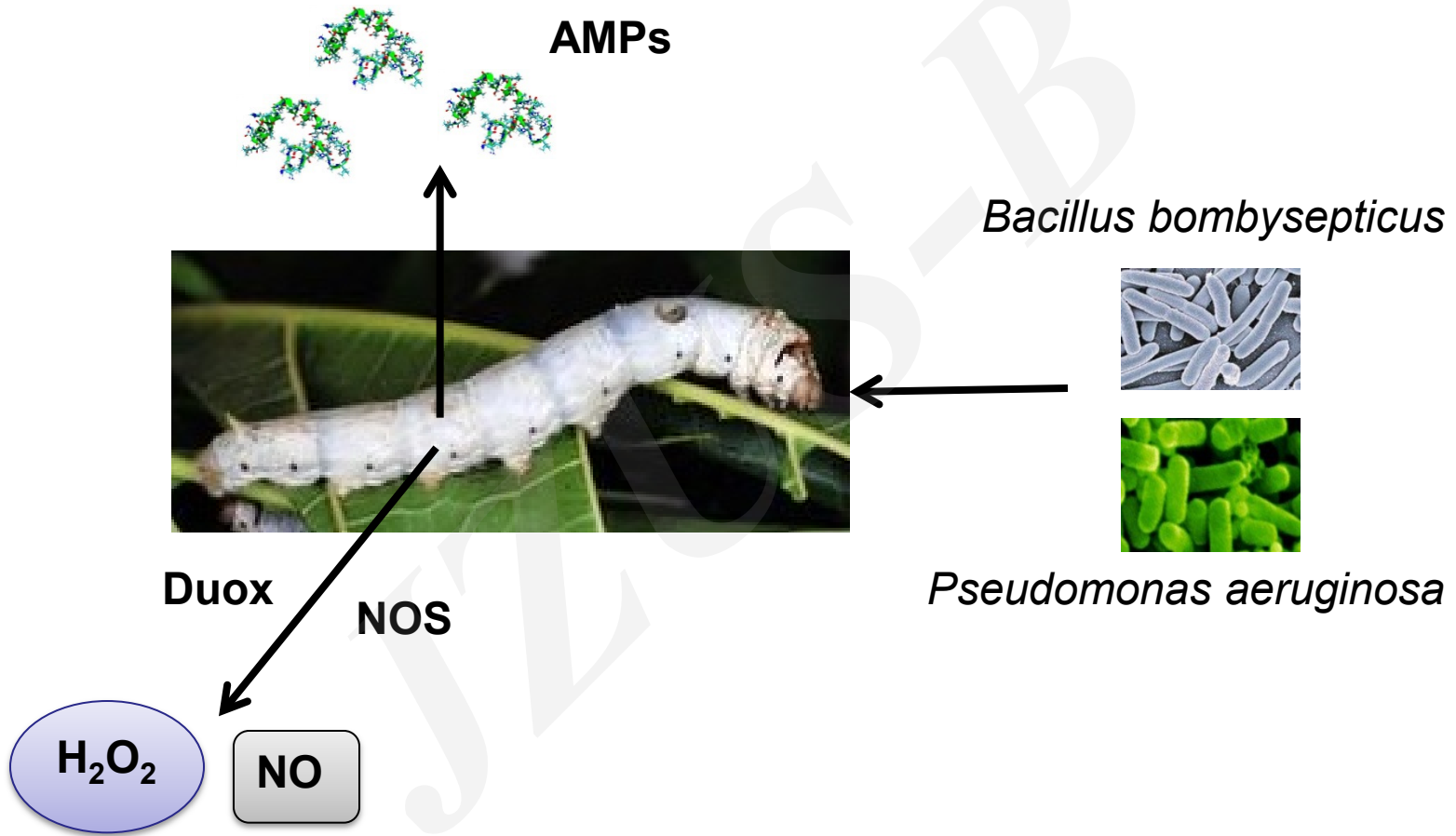


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# Midgut immune responses induced by bacterial infection in the silkworm, *Bombyx mori*

**Key words:** *Bombyx mori*, Midgut, Immune, Hydrogen peroxide, Nitric oxide, Antimicrobial peptide

# Research Summary



# ***Main conclusions***

- *B. bombysepticus* infection was highly lethal to larval silkworm.
- Bacterial infection caused significant increase in intestinal H<sub>2</sub>O<sub>2</sub> and NO levels at 8 and 16 hpi, respectively.
- *P. aeruginosa* infection induced nitric oxide synthase 2 (NOS2) expression at 16 hpi, which contributes to the generation of NO.